

#8

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/514,626
Source: PLT
Date Processed by STIC: 08/04/2005

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 08/04/2005

PATENT APPLICATION: US/10/514,626

TIME: 14:41:08

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\08042005\J514626.raw

```

4 <110> APPLICANT: Pipeline-Biotech
5     Finn Skou Pedersen
6     Shervin Bahrami
7     Mogens Ryttergaard Duch
9 <120> TITLE OF INVENTION: A purified retroviral envelope
10    polypeptide, isolated nucleic acids encoding said
11    polypeptide, vectors and use thereof
13 <130> FILE REFERENCE: P32118PC01
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/514,626
C--> 15 <141> CURRENT FILING DATE: 2004-11-17
15 <150> PRIOR APPLICATION NUMBER: PA200200767
16 <151> PRIOR FILING DATE: 2002-05-17
18 <160> NUMBER OF SEQ ID NOS: 2
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1920
24 <212> TYPE: DNA
25 <213> ORGANISM: Murine Leukaemia Virus
27 <400> SEQUENCE: 1
28 atggaaggtc cagcgttctc aaaaccctt aaagataaga ttaaccctg gggcccccta 60
29 atagtctctg gaatcttaat gagggcaaga gtatcagtac aacatgacag ccctcatcag 120
30 gtcttcaatg ttacttggag agttaccaac ttaatgacag gacaaacagc taatgctacc 180
31 tccctcctgg ggacaatgac cgatgccttt cctaaactgt actttgactt gtgcgattta 240
32 ataggggacg actgggatga gactggactc ggggtgctgca ctcccggggg aagaaaaagg 300
33 gcaagaatat ttgacttcta tgtttgccc ggtcacactg tgctagcagg gtgtggaggg 360
34 ccgagagagg gctactgtgg caaatgggga tgtgagacca ctggacaggc atactggaag 420
35 ccatcatcat catgggacct aatttccctt aagcgaggaa acactcctaa aggccagggc 480
36 ccctgttatg attcctcggg ggtctccagt agcgcccagg gtgccacacc ggggggtcga 540
37 tgcaaccccc tagtcctaga attcactgac gcgggtaaaa gggccagctg ggacgcctcc 600
38 aaagcatggg gactaagact gtaccgatcc acaaggaccg acccggtgac ccggttctct 660
39 ttgaccgcgc aggtcctcaa tatagggcc cgcgtcccca ttgggcctaa tcccgtgatc 720
40 attgaccagt taccctctc cgcaccctg cagatcatgc tcccaggcc tccctcagct 780
41 cctccaccag gcgcagctc tacagtccct gagactgccc caccttccca acaacctggg 840
42 acgggagaca ggtgctaaa cctggtaaat ggagcctacc aagctctcaa cctcaccagt 900
43 cctgacaaaa cccaagagtg ctggttgtgt ctggtagcgg gaccccccta ctacgaaggg 960
44 gttgcctgct taggtactta ttccaacct acctctgccc cagctaactg ctccgtggcc 1020
45 tcccaacaca agctgacct gtccgaagt accggacagg gactctgctg aggagcagtt 1080
46 cccaaaaccc atcaggccct gtgtaatacc acccagaaga cgagcaacgg gtcctactat 1140
47 ctggctgctc ccgcccgggac catttgggct tgcaacaccg ggctcactcc ctgcctatct 1200
48 accactgtgc tcgacctcac caccgattac tgtgtcctgg ttgagctctg gccaaaagtg 1260
49 acctaccact cccctgggta tgtttatggc cagtttgaag aaaaaaccaa atataaaaga 1320
50 gaaccctgct cactaactct ggccctacta ttaggaggac tcaactatgg cggaattgcc 1380
51 gccggagtgg gaacagggac taccgcctca gtggccactc agcagttcca acaactccag 1440

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```

52 gctgccatgc aggatgacct taaagaagtt gaaaagtcca tcactaatct agaaagatct 1500
53 ttgacctcct tgtccgaagt agtgttacag aatcgtagag gcctagatct actattccta 1560
54 aaagagggag gtttgtgtgc tgccttaaaa gaagaatgct gtttctatgc cgaccacaca 1620
55 ggattggtac gggatagcat ggccaaactt agagaaagat tgagtcagag acaaaaactc 1680
56 tttgaatccc aacaagggtg gtttgaaggg ctgtttaaca agtccccttg gttcaccacc 1740
57 ctgatatcca ccatcatggg tcccctgata atcctcttgc taattttact ctttgggcct 1800
58 tgtattctca atcacctggt ccagtttatc aaagacaggg tttcggtagt gcaggccctg 1860
61 gtcctgactc aacaatatca tcaacttaag acaatagaag attgtgaatc acgtgaataa 1920
63 <210> SEQ ID NO: 2
64 <211> LENGTH: 639
65 <212> TYPE: PRT
66 <213> ORGANISM: Murine Leukaemia Virus
68 <400> SEQUENCE: 2
69 Met Glu Gly Pro Ala Phe Ser Lys Pro Leu Lys Asp Lys Ile Asn Pro
70 1 5 10 15
71 Trp Gly Pro Leu Ile Val Leu Gly Ile Leu Met Arg Ala Arg Val Ser
72 20 25 30
73 Val Gln His Asp Ser Pro His Gln Val Phe Asn Val Thr Trp Arg Val
74 35 40 45
75 Thr Asn Leu Met Thr Gly Gln Thr Ala Asn Ala Thr Ser Leu Leu Gly
76 50 55 60
77 Thr Met Thr Asp Ala Phe Pro Lys Leu Tyr Phe Asp Leu Cys Asp Leu
78 65 70 75 80
79 Ile Gly Asp Asp Trp Asp Glu Thr Gly Leu Gly Cys Arg Thr Pro Gly
80 85 90 95
81 Gly Arg Lys Arg Ala Arg Ile Phe Asp Phe Tyr Val Cys Pro Gly His
82 100 105 110
83 Thr Val Leu Ala Gly Cys Gly Gly Pro Arg Glu Gly Tyr Cys Gly Lys
84 115 120 125
85 Trp Gly Cys Glu Thr Thr Gly Gln Ala Tyr Trp Lys Pro Ser Ser Ser
86 130 135 140
87 Trp Asp Leu Ile Ser Leu Lys Arg Gly Asn Thr Pro Lys Gly Gln Gly
88 145 150 155 160
89 Pro Cys Tyr Asp Ser Ser Val Val Ser Ser Ser Ala Gln Gly Ala Thr
90 165 170 175
91 Pro Gly Gly Arg Cys Asn Pro Leu Val Leu Glu Phe Thr Asp Ala Gly
92 180 185 190
93 Lys Arg Ala Ser Trp Asp Ala Ser Lys Ala Trp Gly Leu Arg Leu Tyr
94 195 200 205
95 Arg Ser Thr Arg Thr Asp Pro Val Thr Arg Phe Ser Leu Thr Arg Gln
96 210 215 220
97 Val Leu Asn Ile Gly Pro Arg Val Pro Ile Gly Pro Asn Pro Val Ile
98 225 230 235 240
99 Ile Asp Gln Leu Pro Pro Ser Arg Pro Val Gln Ile Met Leu Pro Arg
100 245 250 255
101 Pro Pro Gln Pro Pro Pro Pro Gly Ala Ala Ser Thr Val Pro Glu Thr
102 260 265 270
103 Ala Pro Pro Ser Gln Gln Pro Gly Thr Gly Asp Arg Leu Leu Asn Leu
104 275 280 285

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```

105 Val Asn Gly Ala Tyr Gln Ala Leu Asn Leu Thr Ser Pro Asp Lys Thr
106      290      295      300
107 Gln Glu Cys Trp Leu Cys Leu Val Ala Gly Pro Pro Tyr Tyr Glu Gly
108 305      310      315      320
109 Val Ala Val Leu Gly Thr Tyr Ser Asn His Thr Ser Ala Pro Ala Asn
110      325      330      335
111 Cys Ser Val Ala Ser Gln His Lys Leu Thr Leu Ser Glu Val Thr Gly
112      340      345      350
113 Gln Gly Leu Cys Val Gly Ala Val Pro Lys Thr His Gln Ala Leu Cys
114      355      360      365
115 Asn Thr Thr Gln Lys Thr Ser Asn Gly Ser Tyr Tyr Leu Ala Ala Pro
116      370      375      380
120 Ala Gly Thr Ile Trp Ala Cys Asn Thr Gly Leu Thr Pro Cys Leu Ser
121 385      390      395      400
122 Thr Thr Val Leu Asp Leu Thr Thr Asp Tyr Cys Val Leu Val Glu Leu
123      405      410      415
124 Trp Pro Lys Val Thr Tyr His Ser Pro Gly Tyr Val Tyr Gly Gln Phe
125      420      425      430
126 Glu Glu Lys Thr Lys Tyr Lys Arg Glu Pro Val Ser Leu Thr Leu Ala
127      435      440      445
128 Leu Leu Leu Gly Gly Leu Thr Met Gly Gly Ile Ala Ala Gly Val Gly
129      450      455      460
130 Thr Gly Thr Thr Ala Leu Val Ala Thr Gln Gln Phe Gln Gln Leu Gln
131 465      470      475      480
132 Ala Ala Met Gln Asp Asp Leu Lys Glu Val Glu Lys Ser Ile Thr Asn
133      485      490      495
134 Leu Glu Arg Ser Leu Thr Ser Leu Ser Glu Val Val Leu Gln Asn Arg
135      500      505      510
136 Arg Gly Leu Asp Leu Leu Phe Leu Lys Glu Gly Gly Leu Cys Ala Ala
137      515      520      525
138 Leu Lys Glu Glu Cys Cys Phe Tyr Ala Asp His Thr Gly Leu Val Arg
139      530      535      540
140 Asp Ser Met Ala Lys Leu Arg Glu Arg Leu Ser Gln Arg Gln Lys Leu
141 545      550      555      560
142 Phe Glu Ser Gln Gln Gly Trp Phe Glu Gly Leu Phe Asn Lys Ser Pro
143      565      570      575
144 Trp Phe Thr Thr Leu Ile Ser Thr Ile Met Gly Pro Leu Ile Ile Leu
145      580      585      590
146 Leu Leu Ile Leu Leu Phe Gly Pro Cys Ile Leu Asn His Leu Val Gln
147      595      600      605
148 Phe Ile Lys Asp Arg Val Ser Val Val Gln Ala Leu Val Leu Thr Gln
149      610      615      620
150 Gln Tyr His Gln Leu Lys Thr Ile Glu Asp Cys Glu Ser Arg Glu
151 625      630      635

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/514,626

DATE: 08/04/2005

TIME: 14:41:09

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\08042005\J514626.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date